

**What is claimed is:**

1. A conversion check apparatus which checks an analytic model generated by converting a three-dimensional model for use in an analyzing process,  
5 comprising:  
a calculation unit obtaining a difference between the analytic model and the three-dimensional model; and  
10 a conversion check display unit displaying the difference.
2. The apparatus according to claim 1, wherein  
said calculation unit comprises at least one  
15 of a volume calculation facility unit for obtaining a difference in volume between the analytic model and the three-dimensional model, a surface area calculation facility unit for obtaining a difference in surface area between the analytic  
20 model and the three-dimensional model, and a barycenter calculation facility unit for obtaining a difference in barycenter position between the analytic model and the three-dimensional model.
- 25 3. A conversion checking method for checking an

analytic model generated by converting a three-dimensional model for use in an analyzing process, comprising:

obtaining a difference between the analytic  
5 model and the three-dimensional model; and  
displaying the difference.

4. The method according to claim 3, wherein  
said difference is numerically displayed.
- 10 5. The method according to claim 3, wherein  
said difference is visually displayed.
6. The method according to claim 3, wherein  
15 said difference includes at least one of a  
difference in volume, a difference in surface area,  
and a difference in barycenter position.
7. The method according to claim 3, wherein  
20 said three-dimensional model and said analytic  
model are displayed as overlapping each other.
8. The method according to claim 7, wherein  
a portion not completely overlapping between  
25 the three-dimensional model and the analytic model

is clearly displayed.

9. The method according to claim 3, wherein  
said three-dimensional model and said analytic  
5 model are displayed together.

10. The method according to claim 3, wherein  
said analytic model is generated by dividing  
the three-dimensional model by assigning a grid  
10 pattern to the three-dimensional model, and  
determining validity on each rectangle element.

11. The method according to claim 10, wherein  
it is determined that the rectangle element is  
15 valid when the volume of the three-dimensional  
model in the grid pattern indicates a rate of a  
specific value or higher relative to the volume of  
the rectangular area, and invalid when a value  
smaller than the specific value is indicated.

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12. A computer-readable storage medium storing a  
program used to direct a computer for checking an  
analytic model generated by converting a three-  
dimensional model for use in an analyzing process  
25 to perform:

obtaining a difference between the analytic model and the three-dimensional model; and displaying the difference.